

## **6.2 Efficiency Measures Examined**

In order to develop a list of commercial technologies to be included in this analysis, GDS reviewed several relevant data sources. Table 6-3 shows a list of the commercial sector energy efficiency measures included in this analysis, and the levelized cost per lifetime kWh saved for each measure. Detailed descriptions of these energy efficiency measures are provided in Appendix B of this report. Note that several measures have a levelized cost per kWh saved of less than \$.05 per kWh saved.

**Table 6-3: Commercial Measures – Levelized Cost per kWh Saved**

<b>Measure</b>	<b>Levelized cost per kWh saved</b>
<b>Space Heating</b>	
High Efficiency Heat Pump	\$0.0050
Ground Source Heat Pump - Heating	\$0.3420
<b>Water Heating End Use</b>	
Heat Pump Water Heater	\$0.0390
Booster Water Heater	\$0.2477
Point of Use Water Heater	\$0.0504
Solar Water Heating System	\$0.0242
Solar Pool Heating	\$0.0802
<b>Envelope</b>	
Double Pane Low Emissivity Windows	\$0.0077
<b>Space Cooling - Chillers</b>	
Centrifugal Chiller, 0.51 kW/ton, 300 tons	\$0.0513
Centrifugal Chiller, 0.51 kW/ton, 500 tons	\$0.0513
Centrifugal Chiller, Optimal Design, 0.4 kW/ton, 500 tons	\$0.0513
<b>Space Cooling - Packaged AC</b>	
DX Packaged system EER = 10.9, 10 tons	\$0.0266
DX Packaged System, CEE Tier 2, <20 Tons	\$0.0179
DX Packaged System, CEE Tier 2, >20 Tons	\$0.0265
Packaged AC - 3 tons, Tier 2	\$0.0488
Packaged AC - 7.5 tons, Tier 2	\$0.0425
Packaged AC - 15 tons, Tier 2	\$0.0405
Ground Source Heat Pump - Cooling	\$0.2589
<b>Space Cooling - Maintenance</b>	
Chiller Tune Up/Diagnostics - 300 ton	\$0.0339
Chiller Tune Up/Diagnostics - 500 ton	\$0.0335
DX Tune Up/ Advanced Diagnostics	\$0.1013